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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/531,095	(04/07/2005	Henry M Krause	1889-00900	5757	
23505	7590	05/01/2006		EXAMINER		
CONLEY I	ROSE, P.	C.	SHIN, DANA H			
P. O. BOX 3267 HOUSTON, TX 77253-3267				ART UNIT	PAPER NUMBER	
				1635	1635 DATE MAILED: 05/01/2006	
				DATE MAILED: 05/01/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/531,095	KRAUSE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Dana Shin	1635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte afte - If No - Faile Any	CHEVER IS LONGER, FROM THE MAILING DATE IN THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	Lety filed the mailing date of this communication. C (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on <u>07 Ap</u>						
,	•—	action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims						
4) Claim(s) <u>1-22</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
-	Claim(s) is/are rejected.						
•	Claim(s) is/are objected to.						
8) Claim(s) 1-22 are subject to restriction and/or election requirement.							
Applicat	tion Papers						
9)	The specification is objected to by the Examine	т.	•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
	application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
			•				
Attachme	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summary					
3) Info	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2 and 4-9, drawn to a method for purifying an RNA-protein complex formed in vitro.

Group II, claim(s) 3-9, drawn to a method for purifying an RNA-protein complex formed *in vivo*.

Group III, claim(s) 10-17 and 20-22, drawn to an RNA fusion molecule comprising a target

RNA sequence and at least two different RNA tags and a kit for detecting an RNA-protein

complex comprising said RNA fusion molecule.

Group IV, claim(s) 18-19, drawn to a method for screening a test compound for its ability to modulate an RNA-protein complex formed *in vitro*.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The inventions of groups I-VII are found to have no special technical feature that define a contribution over the prior art of Bachler et al. (RNA, 1999), in view of Srisawat et al. (Methods,

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2002). The reference of Bachler et al., teaches a novel method for isolating RNA-binding proteins called "Strepto Tag", which can be used to detect and purify RNA-protein complexes formed in vitro from crude yeast extracts via assembling the RNA-protein complexes to streptomycin-sepharose tag. In support of Bachler et al.'s findings, Srisawat et al., also teach use of Sephadex and streptavidin RNA affinity tags for rapid purification of RNA-protein complexes from cellular lysates under mild conditions. Therefore, applicants' invention of the method for purifying an RNA-protein complex formed in vitro does not contribute a special technical feature when viewed over the prior art. Accordingly, they do not have a single inventive concept and so lack unity of invention, thus restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows: a maltose binding protein, a 6-histidine peptide, glutathione S transferase, and a portion thereof sufficient to bind specifically to the affinity resin, drawn to generic claims 1-3 of groups I and II.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

According to the guidelines in Section (f)(i)(a) of Annex B of the PCT Administrative Instructions, the special technical feature as defined by PCT Rule 13.2 shall be considered to be met when all the alternatives of a Markush-group are of similar nature. For chemical alternatives, such as the claimed affinity resins, the Marksuh group shall be regarded as being of similar nature when

- (A) all alternatives have a common property or activity and
- (B)(1) a common structure is present, i.e, a significant structure is shared by all of the alternatives or
- (B)(2) in cases where the common structure cannot be the unifying criteria, all alternatives belong to an art recognized class of compounds in the art to which the invention pertains.

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The instant affinity resins are considered to be each separate invention for the following reasons:

As described above, the affinity resins do not meet the criteria of (A), common property or activity or (B)(1), common structure or (B)(2), art recognized class of compounds. Although all resins are disclosed as binding to at least one RNA tag, each resin behaves in a different way in the context of the claimed invention because each resin comprises distinct protein/peptide. Thus, each member of the class cannot be substituted one for the other, with the expectation that the same intended result would be achieved.

Further, the resins do not meet the criteria of (B)(1), as they do not share, one with another, a common core structure. Accordingly, unity of invention between the resins is lacking and each resin claimed is considered to constitute a special technical feature.

Applicant is required, in reply to this action, to elect a single species, to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Inventorship

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Shin whose telephone number is 571-272-8008. The examiner can normally be reached on Monday through Friday, from 8am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dana Shin Examiner Art Unit 1635

Schul

PRIMARY EXAMINER